

ECS/EMD Configuration Change Request

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Page(s)

1. Originator Ron Parham	2. Log Date: 09/22/04	3. CCR #: 04-0488	4. Rev: —	5. Tel: 0713	6. Rm #: 3108D	7. Org. HW COTS
8. CCR Title: TCP Driver Fix for IBM Firewall						
9. Originator Signature/Date Ronald A. Parham /s/ 9/17/04			10. Class II	11. Type: CCR	12. Need Date: 9/23/04	
13. CCR Sponsor Signature/Date Pamela Johnson /s/ 9/21/04			14. Category of Change: PRO		15. Priority: (If "Emergency" fill in Block 27). Routine	
16. Documentation/Drawings Impacted (Review and submit checklist): N/A			17. Schedule Impact: N/A		18. CI(s) Affected: N/A	
19. Release Affected by this Change: N/A		20. Date due to Customer: 9/29/04		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: ECSed40527						
23. Problem: (use additional Sheets if necessary) Host g0fwi10 halted on 05/18/2004 at 19:44 which interrupted MODAPS connectivity to PDR Server. IBM technical support was contacted 05/19/2004 (reference code 32RS387) for assistance. Host required power cycling before console prompt was returned. Executed a series of hardware diagnostics which returned error free. Error appears software related.						
24. Proposed Solution: (use additional sheets if necessary) IBM recommended installing patch fix "bos.net.tcp.server.5.1.0.51". The patch fix would be installed on the GES DAAC firewall, g0fwi10.						
25. Alternate Solution: (use additional sheets if necessary) None						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) Possibility of the reoccurrence of interrupted MODAPS flows.						
27. Justification for Emergency (If Block 15 is "Emergency"): None						
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. SCDV CCB Chair (Sign/Date): Byron V. Peters /s/ 9/21/04			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. EDF CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: 04-0488 **Rev:** — **Originator:** Ron Parham

Telephone: 301 925 0713 **Office:** HW COTS

Title of Change: TCP Driver Fix for IBM Firewall

Installation Instructions for IBM TCP Driver Fix

1.0 Purpose

The purpose of this document is to define the steps required to install the TCP driver fix in the IBM Model 7028-6E4 server (a.k.a. Portus Firewall).

2.0 Scope

This document can be used by engineering, installation, and maintenance personnel to install the IBM TCP driver fix the Portus Firewall. It does not replace training provided by IBM.

3.0 Related Documentation

3.1 IBM Documentation

The following IBM information was used to develop the step-by-step procedures:

1. On-line documentation from IBM's Web Site at <http://www.ibm.com>
2. Installation Guide for Server pSeries 630 Model 6E4 e-server

4.0 Fileset Update Procedures

1. Download from the IBM AIX website the updated filesets for the base operating system commands supporting tcp drivers.

Type the following commands:

```
#mkdir /tmp/tcpfix 8
#cd /tmp/tcpfix 8
#ftp://www7b.boulder.ibm.com/ 8
Connected to www7b.boulder.ibm.com.
220-*****
220-*
220-* IBM's internal systems must be used only for conducting IBM's business *
220-* or for purposes authorized by IBM management. *
220-* *
220-* Use is subject to audit at any time by IBM management. *
220-* *
220-*****
220-
220 www7b.boulder.ibm.com FTP server (Version wu-2.6.2(4) Custom Thu Feb 12 14:27:47 MST 2004) ready.
User (www7b.boulder.ibm.com:(none)): anonymous
331 Guest login ok, send your complete e-mail address as password.
Password:
230-Please read the file README
230- it was last modified on Thu Aug 9 08:15:27 2001 - 697 days ago
230 Guest login ok, access restrictions apply.
#ftp>cd aix/fixes/byCompID/5765E6100/bos.net/ 8
#ftp>bin 8
#ftp>get bos.net.tcp.server.5.1.0.51.bff 8
#ftp>get bos.net.tcp.server.5.1.0.51.info 8
#ftp>bye 8
2. Verify the download into /tmp/tapefix and execute an AIX "sum" command:
# sum bos.net.tcp.server.5.1.0.51.bff 8
40039 5875 bos.net.tcp.server.5.1.0.51.bff
# sum bos.net.tcp.server.5.1.0.51.info 8
04701 1 bos.net.tcp.server.5.1.0.51.info
3. Build the .toc file required by the installation program
# inutoc . 8
4. Use SMIT to perform the software install:
# smit
```

The first menu heading will read:

Software Installation and Maintenance

Select the heading:

Install and Update Software

Select the heading:

Update from Latest Available Software

A popup menu is displayed. At the "Input device / directory for software," type in:

/tmp/tcpfix

Click the OK button

A new popup window will appear. Make the following selections for the appropriate boxes:

Software to install = click on the "list" button, a "Multi-Select List" window will popup. From this window select:

bos All bos_all_filesets

bos.net All bos.net_all_filesets

Then click the OK button which will return to the previous window. Continue with the following selections:

Preview only ? = no

Commit software updates? = yes

Save replaced files ? = yes

Automatically install required software? = no

Extend file systems if needed? = no

Overwrite same or newer versions = no

Verify install and check file sizes = no

Include corresponding Language filesets ? = yes

Detailed output ? = yes

Process multiple volumes ? = no

Click on OK to start the install process. Upon a successful completion the running man will raise his hands.